

## Declaration and Power of Attorney for Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE

the specification of which

(check one)

☐ is attached hereto.  
☒ was filed on October 2, 2001 as United States Application No. or PCT  
 Application No. 09/970,271  
 and was amended on \_\_\_\_\_  
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	[ ]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	[ ]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	[ ]

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

_____	_____
(Application Serial No.)	(Filing Date)
_____	_____
(Application Serial No.)	(Filing Date)
_____	_____
(Application Serial No.)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. Section 120 of the United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark office all information known to me to be material to patentability as defined in Title 37, C.F.C., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

David G. Conlin	Reg. No. 27,026	Christine C. O'Day	Reg. No. 38,256
George W. Neuner	Reg. No. 26,964	Robert L. Buchanan	Reg. No. 40,927
Linda M. Buckley	Reg. No. 31,003	David E. Tucker	Reg. No. 27,840
Peter J. Manus	Reg. No. 26,766	Lisa Swiszczy Hazzard	Reg. No. 44,368
Peter F. Corless	Reg. No. 33,860	George W. Hartnell	Reg. No. 42,639
Cara Z. Lowen	Reg. No. 38,227	Kathleen Carr	Reg. No. 41,658
William J. Daley, Jr.	Reg. No. 35,487	Stewart L. Gitler	Reg. No. 31,256
Steven M. Jensen	Reg. No. 42,693	Kathryn A. Piffat	Reg. No. 34,901
John B. Alexander	Reg. No. 48,399		

S. Matthew Cairns	Reg. No. 42,378
John J. Piskorski	Reg. No. 35,647
Darryl P. Frickey	Reg. No. 34,603

Send Correspondence to:

John J. Piskorski  
c/o EDWARDS & ANGELL, LLP  
Dike, Bronstein, Roberts & Cushman, IP Group  
130 Water Street  
Boston, Massachusetts 02109  
USA

Direct Telephone Calls to:  
*(name and telephone number)*

John J. Piskorski  
Telephone: (508) 229-7662  
Facsimile: (508) 229-0254

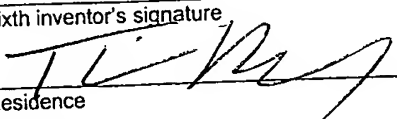
Full name of sole or first inventor	
Andrew J. COBLEY	Date:
Sole or first inventor's signature	
Residence	
7 Henderson Close, Allesley Village, Coventry CV5 9EY, Great Britain	
Citizenship	
United Kingdom	
Post Office Address	
Same As Above	

Full name of second inventor	
Mark J. KAPECKAS	Date:
Second inventor's signature	
Residence	
33 Broad Street, Marlborough, Massachusetts 01752, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of third inventor	
Erik REDDINGTON	Date:
Third inventor's signature	
Residence	
24 Annetta Road, Ashland, Massachusetts 01721, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of sole or fourth inventor	
Wade SONNENBERG	Date:
Fourth inventor's signature	
Residence	
RR1 472C, Edgartown, Massachusetts 02539, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of fifth inventor	
Leon R. BARSTAD	Date:
Fifth inventor's signature	
Residence	
8 Regan Circle, Raynham, Massachusetts 02767, U.S.A.	
Citizenship	
United States of America	
Post Office Address	
Same As Above	

Full name of sixth inventor	
Thomas BUCKLEY	
Sixth inventor's signature	Date:
	11-3-01
Residence	
736 Washington Street, Dedham, Massachusetts 02026, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

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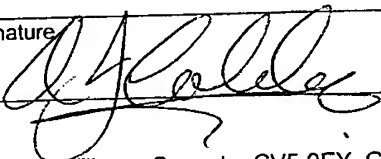
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 Telephone: (508) 229-7662  
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Andrew J. COBLEY	
Sole or first inventor's signature	Date:
	5/11/01
Residence	
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Mark J. KAPECKAS	
Second inventor's signature	Date:
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33 Broad Street, Marlborough, Massachusetts 01752, U.S.A.	
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Erik REDDINGTON	Date:
Third inventor's signature	
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24 Annetta Road, Ashland, Massachusetts 01721, U.S.A.	
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Fourth inventor's signature	
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Full name of fifth inventor	
Leon R. BARSTAD	Date:
Fifth inventor's signature	
Residence	
8 Regan Circle, Raynham, Massachusetts 02767, U.S.A.	
Citizenship	
United States of America	
Post Office Address	
Same As Above	

Full name of sixth inventor	
Thomas BUCKLEY	
Sixth inventor's signature	Date:
Residence	
736 Washington Street, Dedham, Massachusetts 02026, U.S.A.	
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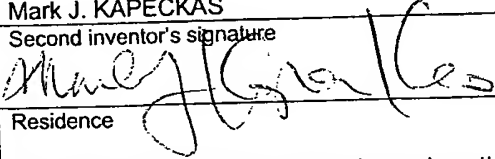
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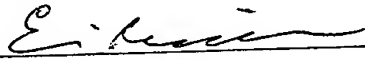
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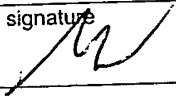
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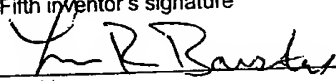
John J. Piskorski  
Telephone: (508) 229-7662  
Facsimile: (508) 229-0254

Full name of sole or first inventor	
Andrew J. COBLEY	
Sole or first inventor's signature	Date:
Residence	
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Citizenship	
United Kingdom	
Post Office Address	
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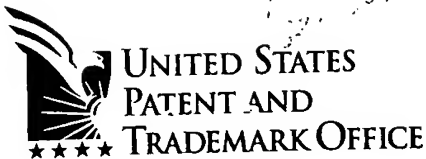
Full name of second inventor	
Mark J. KAPECKAS	
Second inventor's signature	Date:
	11-1-01
Residence	
33 Broad Street, Marlborough, Massachusetts 01752, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of third inventor	
Erik REDDINGTON	
Third inventor's signature	Date:
	11/1/01
Residence	
24 Annetta Road, Ashland, Massachusetts 01721, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of sole or fourth inventor	
Wade SONNENBERG	
Fourth inventor's signature	Date:
	11/1/01
Residence	
RR1 472C, Edgartown, Massachusetts 02539, U.S.A.	
Citizenship	
U.S.A.	
Post Office Address	
Same As Above	

Full name of fifth inventor	
Leon R. BARSTAD	
Fifth inventor's signature	Date:
	11/1/01
Residence	
8 Regan Circle, Raynham, Massachusetts 02767, U.S.A.	
Citizenship	
United States of America	
Post Office Address	
Same As Above	

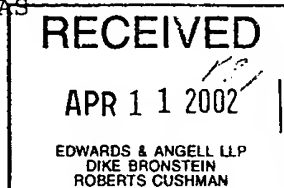
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Thomas BUCKLEY	
Sixth inventor's signature	Date:
Residence	
736 Washington Street, Dedham, Massachusetts 02026, U.S.A.	
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U.S.A.	
Post Office Address	
Same As Above	



APRIL 05, 2002

EDWARDS & ANGELL, LLP  
PETER F. CORLESS  
P.O. BOX 9169  
BOSTON, MA 02209

PTAS



Chief Information Officer  
Washington, DC 20231  
www.uspto.gov



\*101979920A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/04/2002

REEL/FRAME: 012552/0957  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
COBLEY, ANDREW J.

DOC DATE: 11/05/2001

ASSIGNOR:  
KAPECKAS, MARK J.

DOC DATE: 11/01/2001

ASSIGNOR:  
REDDINGTON, ERIK

DOC DATE: 11/01/2001

ASSIGNOR:  
SONNENBERG, WADE

DOC DATE: 11/01/2001

ASSIGNOR:  
BARSTAD, LEON R.

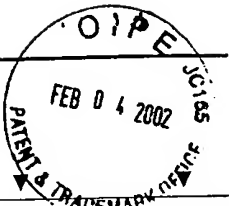
DOC DATE: 11/01/2001

ASSIGNOR:  
BUCKLEY, THOMAS

DOC DATE: 11/03/2001

ASSIGNEE:  
SHIPLEY COMPANY, L.L.C.  
455 FOREST STREET  
MARLBOROUGH, MASSACHUSETTS 01752





02-11-2002



101979920

Docket No.: 50799

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings → → →

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Andrew J. COBLEY  
Mark J. KAPECKAS  
Erik REDDINGTON  
Wade SONNENBERG  
Leon R. BARSTAD

Thomas BUCKLEY

2-4-02

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Shipley Company, L.L.C.

Address: 455 Forest Street

City: Marlborough State/Prov.: MA

Country: U.S.A. ZIP: 01752

Additional name(s) & address(es)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: November 3, 2001 (completed)

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.

Filing date

B. Patent No.(s)

09/970,271

October 2, 2001

02/06/2002 TGEDAMU1 00000168 09970271

02 FC:581

40.00 DP

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter F. Corless

Registration No. 33,860

Address: EDWARDS & ANGELL, LLP

Dike, Bronstein, Roberts & Cushman, IP Group

P.O. Box 9169

City: Boston State/Prov.: MA

Country: USA ZIP: 02209

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1105

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Peter F. Corless

Name of Person Signing

Signature

1/08/02

Date

7

Total number of pages including cover sheet, attachments, and

ASSIGNMENT

WHEREAS, I, Andrew J. Copley of West Midlands, England, I, Mark J. Kapeckas of Marlborough, Massachusetts, I, Erik Reddington of Ashland, Massachusetts, I, Wade Sonnenberg of Edgartown, Massachusetts, I, Leon R. Barstad of Raynham, Massachusetts and I, Thomas Buckley of Dedham, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING BATH AND METHOD FOR DEPOSITING A METAL LAYER ON A SUBSTRATE", for which an application for United States Letters Patent with the same title was filed with the U.S. Patent and Trademark Office on October 2, 2001 and assigned U.S. Application Serial No. 09/970,271, and

WHEREAS, Shipley Company, L.L.C., located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

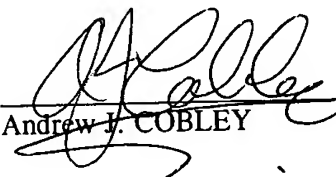
The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the law firm of EDWARDS & ANGELL, LLP, Dike, Bronstein, Roberts & Cushman, IP Group, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 5<sup>th</sup> day of November, 2001.

  
\_\_\_\_\_  
Andrew J. COBLEY

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Mark J. KAPECKAS

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Erik REDDINGTON

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Wade SONNENBERG

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Leon R. BARSTAD

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Thomas BUCKLEY

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Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Andrew J. COBLEY

Dated this 1 day of NOVEMBER, 2001

  
Mark J. KAPECKAS


Dated this 1 day of NOVEMBER, 2001.

  
Erik REDDINGTON

Dated this 1 day of November, 2001.

  
Wade SONNENBERG

Dated this 1 day of November, 2001.

  
Leon R. BARSTAD

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Thomas BUCKLEY

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Andrew J. COBLEY

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Mark J. KAPECKAS

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Erik REDDINGTON

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Wade SONNENBERG

Dated this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

\_\_\_\_\_  
Leon R. BARSTAD

Dated this 3 day of November, 2001.

  
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Thomas BUCKLEY